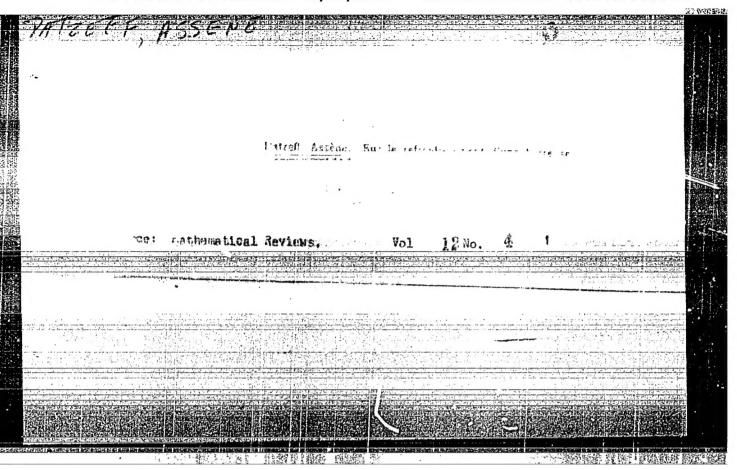


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DATSEV, A.

SURTAIN (in capa); Given Names

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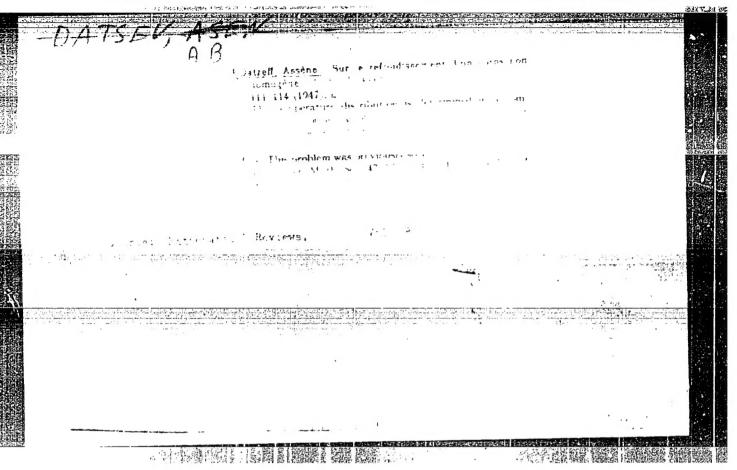
Bulgaria

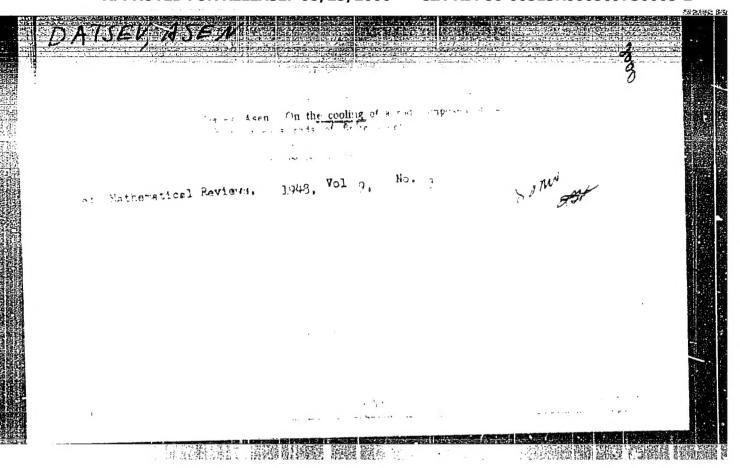
Academic Degrees: Academician

Affiliation: Member of the staff of Priroda

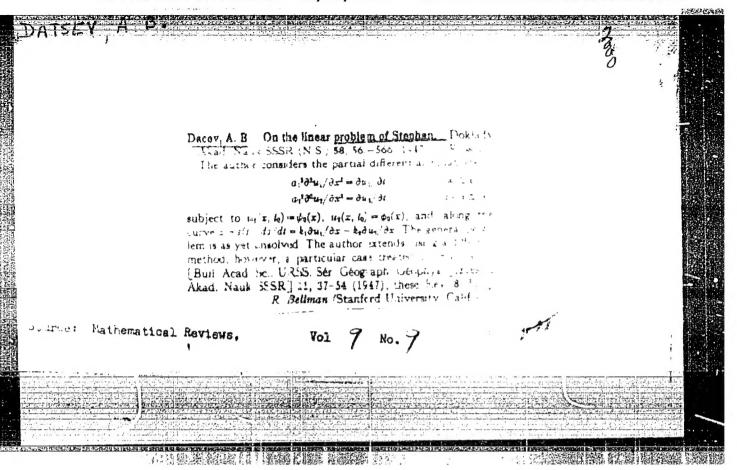
Source: Sofia, Priroda, No 1, Jan/Feb 61, pp 106-107

Data: "The 1960 Humboldt Festival in Berlin."





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	Denote wir, it by $\phi_i(t)$ it is then property to the second	
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ilieffe Assène. Bue la propagation de la chaleur dans un inter printeurs couches. Annuaire [Cudidnik] Univ Soca, Fac Sci. Livre f. 45, 63-91 (1640) (French

Consider a body composed of several homogeneous layers with the surfaces separating the layers being parallel planes. The problem of heat propagation in this body is equivalent to the corresponding problem in a thin bar A which is composed of n homogeneous parts A_1 (i = 1, 2, ..., n) of length I, the lateral surface of the bar being impermeable to heat. If the bar is thought of as extending along the x-axis such that the section A_i lies in the interval (x_{i-1}, x_i) , the teniperature $u_i(x, l)$ of any such section satisfies the equation (1) $a \partial^2 u_i / \partial x^i = \partial u_i / \partial t$, where $a \partial = k d (\rho_i \sigma_i)$ with $\rho_i \sigma_i$ and k, being the density, specific heat, and thermal conductivity, respectively. The initial temperature is given as a function $\Phi_i(x)$ such that (2) $u_i(x, 0) = \Phi_i(x), x_{i-1} < x < x_i$. The temperatures at the extremities Os. O. of A are given by the functions $\phi_0(t)$ and $\phi_n(t)$: (3) $u_1(x_0, t) = \phi_0(t)$, $u_n(x_0, t) = \phi_n(t)$. 1>0. At the points O, common to two adjacent seggents, the following conditions hold: (4) & = u(+1, (4') $e cu_i/\partial x = k_{i-1}\partial u_{i+1}/\partial x, x = x_{i+1} > 0.$

The problem is to find a set of functions $u_i(x,t)$ in 1, ..., n) satisfying equations (1), initial conditions (2),

with me and a. Cristying conclisions (3). Let self inficate the temperature of the point of and unsuler the functions that the variety of the strength of the streng $v = (v, v, t) + W_{i}(x, t),$ where region : 1/4.(E)dE. (7) F.(x, E. t)

$$=\frac{1}{2l_i}\left[v_{ii}\left(\frac{x-\xi}{2l_i},\frac{a_iu}{l_i^2}\right)-v_{ii}\left(\frac{x-2x_{i-1}+\xi}{2l_i},\frac{a_iu}{l_i^2}\right)\right]$$

(8)
$$v_3(x, t) = (\pi t) \cdot t \sum_{r=-r}^{\infty} v_{\lambda_1^{r+r}} \left[-x + r \right] \cdot /t$$

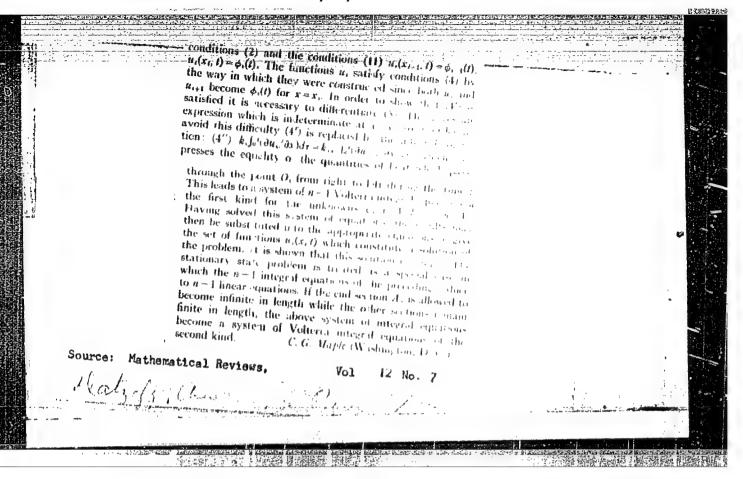
$$= 1 + 2 \sum_{i=1}^{n} \cos 2\pi \nu x \cdot \exp(-\pi^2 \nu^2 t),$$

where v_{ij} represents the function v_{ij} on the interval (x_{r-1}, x_i) . The function Wite this given is

(9)
$$W_i(x,t) = -\frac{a_i^2}{l_i^2} \frac{a_i^2}{a_i} \frac{\partial v_{ij}}{\partial x} \left(\frac{x - x_{i-1}}{2l_i} - \frac{x_i^2 t}{l_i^2} \right)$$

$$+\frac{q_{i}}{l_{i}}\phi_{i}(l)\frac{\partial v_{kl}}{\partial x}\left(\frac{x_{i}-x}{2l_{i}},\frac{a_{i}l_{i}}{l_{i}^{2}}\right),$$
 asterisk indicates of

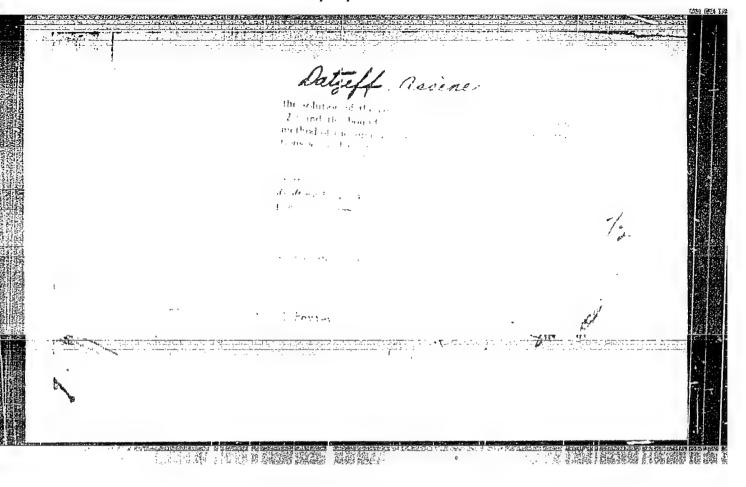
and conditions (4) and (4') at the points $O_1, O_2, \cdots, O_{n-1}$ (10) $\phi(t) \circ (t) = \int_0^t |\phi(t)|^{n} dt$ the function (5) satisfies where the asterisk indicates the following convolution:

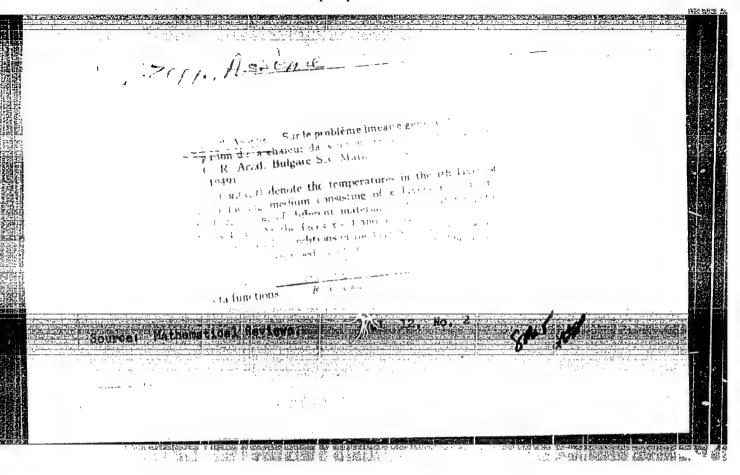


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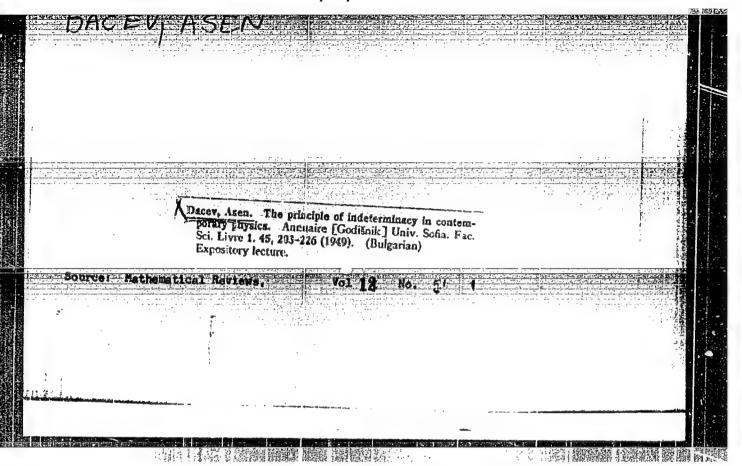
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and (3) The sar the above bodies along the x-axis, are impermeable. The rather first considers a single to a service because	the problem is to find the targe functions satisfying the equations (1), (1'), (2), (2'), ne problem may be potained by replacing by two bars of the same material lying touching at $x=x$, if their lateral surfaces to heat solves the auxiliary problem in which he bar extending along the tracks from $x=x$, the temperature a given by $\Phi_0(x)$ and the thematical Reviews.	(4), the initial condi- (t=1,2, n=1) and (t<1) term. These soft the initial condition to function m, t = 1,5 these equations to Return m, soft	If the is undary condition $u_i(x, t) = u_i(x, t)$ at their supersed in terms of $u_i(x)$ and it is shown that the limit	





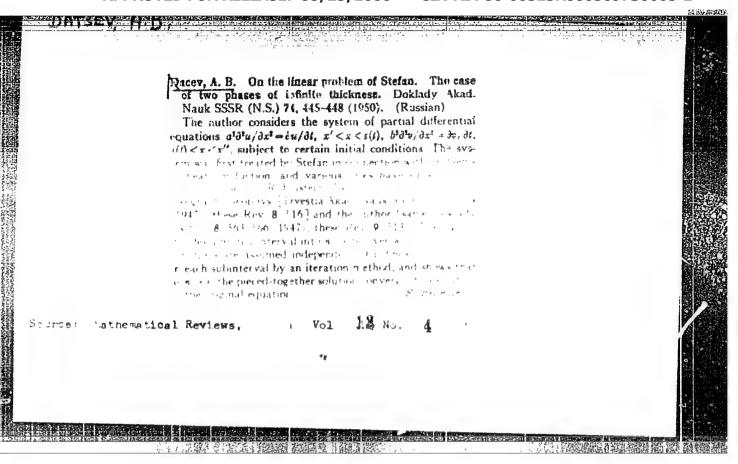
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DATSEV, A. I	with variable coefficients between ten and temperature gradient. Submitted b S. I. Vavilov 14 Nov 49.	USSR/Physics - Conductivity, Thereal (Contd)	A Solution of problem of finding temperature distion in bar consisting of n homogeneous parts, initial temperatures of each rod are known and tions at ends of rod are given by linear dependent	"General Linear Problem of Heat Conductivity Multilayer Medium," A. B. Datsev, Phys Inst, 14 pp General Linear Problem of Heat Conductivity Linear Medium," A. B. Datsev, Phys Inst, Linear Problem of Heat Conductivity Linear Medium, "A. B. Datsev, Phys Inst,	User/Physics - Conductivity, Thermal
	temperature ed by Acad		aperature distribu- endous parts, if are known and condi- linear dependency	Conductivity of a v, Phys Inst, Sofia v, Geofiz" Vol XIV,	



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Dacce, A. B. alternating proves 75, 631-634 Consider the considerate become temperature in the care the equation (1 a, 2**) stant. The initial conditions stant. The initial condition (3) at [2*(t), t] - at the care the end the end conditions	(3) w'(x', t) = \(\phi(t) \) At each interior pour is already satisfied (4) \(dx'/dt = e(k_0)x^2 \) Where \(s = (-1)^{k+1} / p \) The problem is to fix w'(x, t), x'(t), x'(t). and \((4), \) The author and \((4), \) The author [Codisnix] \(V = (k_0) \) problem.	

Mathematical Nevieus Vol. 15 No. 3 March 1954 Analysis

DATZEFF Assene

7-1-54

Detrect, Assime. Sur la propagation de la chaleur dans une barre non nomogène. Annuaire [Godišnik] Fac. Sci. Phys. Math., Univ. Sona, Livre 1, Partie II. 47, 1-32 (1952). (Bulgarian summary)

Let a non-homogeneous bar of length 1 extend along the

Let a non-homogeneous bar of length 1 extend along the x-axis from $x=x_0$ to x=x' and let the lateral surface of the bar be impermeable to heat. The temperature u(x,t) is defined by the boundary value problem

(1)
$$\frac{\partial}{\partial x} \left(k \frac{\partial u}{\partial x} \right) = \rho \sigma \frac{\partial u}{\partial t}$$

where k, ρ and σ are functions of x only, and

(2)
$$u(x, 0) = \Phi(x) \quad (x_0 < x < x'),$$

(3)
$$\pi(x_0, t) = \phi(t), \quad \pi(x', t) = \psi(t) \quad (t > 0),$$

where Φ , ϕ and ϕ are arbitrary bounded and integrable functions.

The method of solution is as follows: divide the interval (x_0, x') into n parts by the selection of abscissas $x_0, x_1, \dots, x_n = x'$ and in the interval (x_{i-1}, x_i) $(i = 1, 2, \dots, n)$ replace the functions h(x), $\rho(x)$, $\sigma(x)$ by the constant values $h_{in} = h(x_{i-1})$, $\dot{\rho}_{in} = \rho(x_{i-1})$, $\dot{\sigma}_{in} = \sigma(x_{i-1})$, respectively. Then in the interval (x_{i-1}, x_i) equation (1) is replaced by

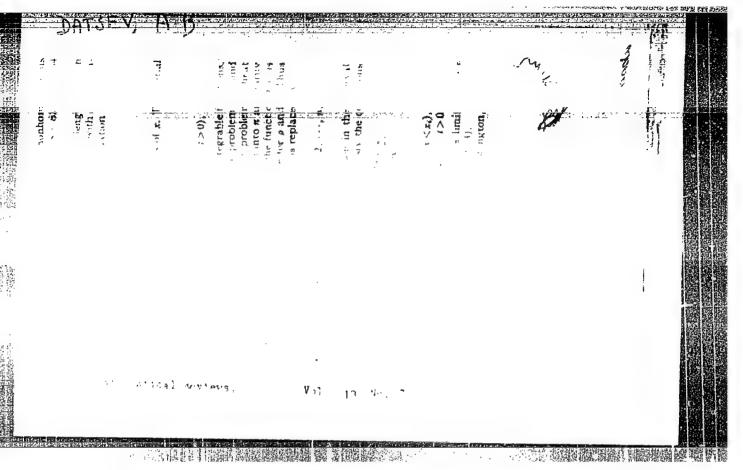
(4)
$$a^{\dagger}_{in} \frac{\partial^{i} u_{in}}{\partial x^{i}} = \frac{\partial u_{in}}{\partial t}, \quad a^{\dagger}_{in} = \frac{h_{in}^{i}}{\rho_{in}\sigma_{in}} \quad (i = 1, 2, \dots, n),$$

where u_{in} is the temperature function in the interval (x_{i-1}, x_i) . The conditions that must be satisfied at the interior points of the subdivision are

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(5)	$u_{in}(x_i,t)=1$	144a(x4 l),	(11)	ðu.				
(6)	dum (Min I)	duurale D		au (x², t)+a1(t)#($(x', t) + \beta_1(t)$	- 0,	
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	ita (xe, i) = \$(i) = Man		6).					!
	utions to problems			•				;
condition	s from (5), (6) and	(7) are found by	y a method,		•			:
discussed	in previous papers 12, 263, 504].	. [See Datself, the	ess Rev. 9,		•	•	•	;
	lution to the problem	m given by (1), (2)	and (I) is					; ;
found fro	m the above by par	ming to the limit a	b p-o w. It		•	•	•	1
s snown i	that: (a) the sequent, $ U_{in}(x,t) < M$ (4)	<= <= . 1>0: i=1	. 2				•	:
(b) the l	imana sa (x, f) estis	fies equation (1),	(a) all (a)	-		•		
quence (1	$\kappa_{in}(x, i)$ has a limit are satisfied, and	tee soon, (d) the	e boundary				•	** .
	r case for which &u/4		in happetery	•			•	1
	$\mathbf{s} \ \mathbf{u}(\mathbf{x}_0) = C_0, \ \mathbf{u}(\mathbf{x}') =$		in in charte.	. *				
to be att	ainable as special cr roblem defined by ((1), (2) and (3).		•				
The re	sults are extended to	lactude the case fo		• •	•			
length of	the bar is infinite. apply the methor	Another estending		•				
problem	defined by (1), (3)	with the boundary						
(3) replac	ced by		• !			•		
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USSR/Physics - Phase State "Appearance of Phase in the Linear Stefan Problem," A. B. Datsev, Sofia U, Sofia, Bulgaria A. B. Datsev, Sofia U, Sofia, Bulgaria The revious works ("Dok Ak Mauk SSSR" 1949 - 1950) In previous works ("Dok Ak Mauk SSSR" 1949 - 1950) the author solved the linear Stefan problem (problem of solved the linear Stefan problem (problem of seasons of a method which he developed, for the case where the initial lengths of the phases are finite. In this article the author solves the previously unsolved problem of the appearance of a new phase. Submitted by Acad S. L. Sobolev 25 Sep 52. 2457102			号标篇17KB!
of Phase State of Phase in the Linear Stefan Problem, sofia U, Sofia, Bulgaria SSSR" Vol 87, No 3, pp 353-356 sorks ("Dok Ak Nauk SSSR" 1949 - 1950) olved the linear Stefan problem (problem ation) for rather general conditions by ethod which he developed, for the case itial lengths of the phases are finite. cle the author solves the previously unem of the appearance of a new phase. Acad S. L. Sobolev 25 Sep 52.	DATSEV. A. B.	PA 245T102	- Van
- Phase State of Phase in the Linear Stefan Proble of Phase in the Linear Stefan Proble SSSR" vol 87, No 3, pp 353-356 works ("Dok Ak Meuk SSSR" 1949 - 19 ation) for rather general condition ation) for rather general condition ethod which he developed, for the citial lengths of the phases are fin itial lengths of the phases are fin cle the author solves the previous em of the appearance of a new phase Acad S. L. Sobolev 25 Sep 52. Acad S. L. Sobolev 25 Sep 52.		8	· King and
- Phase State of Phase in the Linear Stefan Proble of Phase in the Linear Stefan Proble SSSR" vol 87, No 3, pp 353-356 works ("Dok Ak Meuk SSSR" 1949 - 19 ation) for rather general condition ation) for rather general condition ethod which he developed, for the citial lengths of the phases are fin itial lengths of the phases are fin cle the author solves the previous em of the appearance of a new phase Acad S. L. Sobolev 25 Sep 52. Acad S. L. Sobolev 25 Sep 52.		<u> </u>	
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DATSEV, A.

The propagation of heat in a multistrata media in the case of two or three dimensions. In French. p. 139. (GODISHNIK. MATEMATIKA I FIZIKA, Vol. 49. No. 1, 1954/55 (published 1956), Sofia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sep 1957. Uncl.

DALDEN 4-13

SUBJECT

PERIODICAL

USSR/WATHEWATICS/Differential equations

CARD 1/2 PG - 334 335

AUTHOR TITLE -

DACEV A.B. On the two-dimensional Stefan's problem.

On the three-dimensional Stefan's problem.

Doklady Akad. Nauk 101, 441-444 (1955) Doklady Akad. Nauk 101, 629-632 (1955)

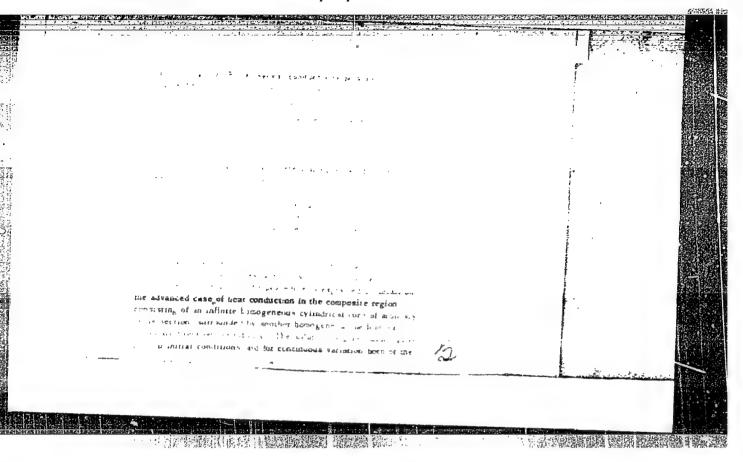
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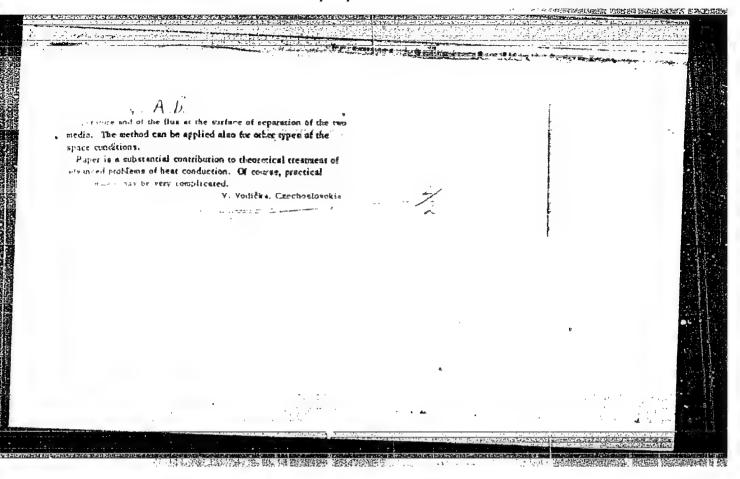
In the two-dimensional case functions $u^{(1)}$, $u^{(2)}$, s, f, g are required which satisfy the conditions

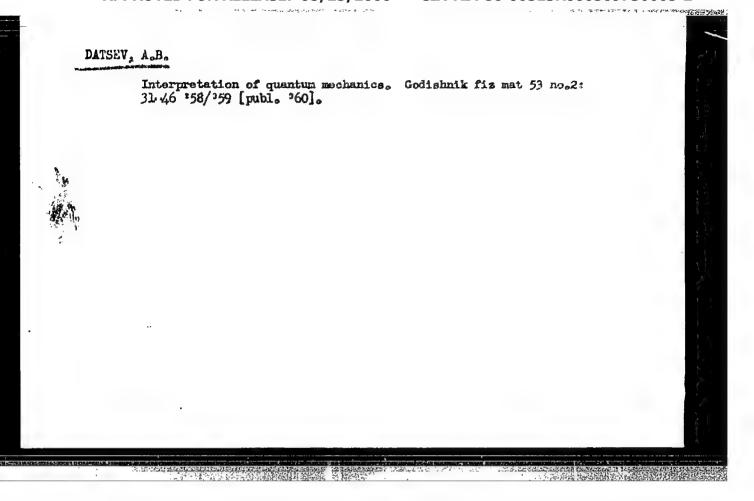
 $a_{m}^{2} \Delta u^{(m)} = \frac{\Im u^{(m)}}{\Im t}$, $u^{(m)}(x,y,t_{o}) = \Phi_{m}(x,y)$, $u^{(m)}(L) = 0$, m = 1,2,

 $f_t^{1^2} + g_t^{1^2} = g_t^{1^2}$, $f_t^{1}f_{0x}^{1} + g_t^{1}g_{0x}^{1} = 0$, $\frac{dg}{dt} = 1(k_1 \frac{\partial u^{(1)}}{\partial v} - k_2 \frac{\partial u^{(2)}}{\partial v})$

Here u(1) and u(2) are the temperatures of two states of aggregation of the same material which are separated by the curve 1. In the course of time 1 describes the surface L. The second equation is the initial condition, the third one the boundary condition. The orthogonal trajectories of the curves 1(t) on L are $x = f(\alpha, s(\alpha, t))$, $y = g(\alpha, s(\alpha, t))$, where $s(\alpha, t)$ is the







D

BULGARIA/Atomic and Molecular Physics - Statistical Physics.

Thermodynamics.

Abs Jour

: Ref Zhur Fizika, No 2, 1960, 3214

Author

: Datzeff, A.B.

Inst

The University, Sofia, Bulgaria

Title

: Concerning One Case of Motion of Molecules

Orig Pub

: Dokl. Bolg. AN, 1959, 12, No 2, 105-108

Abstract

: The author considers the motion of non-interacting point molecules, contained in a rectangle, which are reflected from the walls as elastic spheres. It is assumed that at the initial instant of time t = 0 the molecules are located in a circle and have identical radial velocity. It is shown (without statistical considerations) that the distribution of the molecules tends to equilibrium

at $t \rightarrow 0$.

Card 1/1

S/058/62/000/005/007/119 A160/A101

AUTHOR:

Datsev, A. B.

TITLE:

The interpretation of quantum mechanics. II. The determination of the probability of locating a particle at a given point

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 5, 1962, 16, abstract 5A182 ("Godishnik Sofiysk. un-t. Fiz,-matem. fak", 1959-1960 (1961), 54, no. 2, 121-142, Bulgarian; French summary)

TEXT: As in part I (RZhFiz, 1961, 2A204), considered is an attempt of introducing in physics ether of a discrete kind, called by the author subvacuum. This subvacuum is considered a "material carrier" of the field. The elements of which the subvacuum consists may be grouped; they form the particles and the field. Hereby, all values characterizing the particle or the field may fluctuate. Thus, the particle, reacting with the field, possesses some state of motion characterized by the probability W(x, y, z) of locating a particle at a given point (x, y, z). The function represented in a form of the square of function F for which the equation of Schroedinger was obtained.

[Abstracter's note: Complete translation]

A. Temkin

Card 1/1

S/058/62/000/005/008/119 A160/A101

AUTHOR:

Datsey, A. B.

TITLE:

The interpretation of quantum mechanics. III. The relations of indeterminancy. Observation and reality.

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 5, 1962, 17, abstract 5A183 ("Godishnik Sofiysk, un-t. Fiz,-matem. fak.", 1959-1960 (1961), 54. no. 2, 143-175, Bulgarian; French summary)

TEXT: The author believes that the mathematical apparatus set forth by his theory (part II. see Ref. 5A182) leads to the same results as the non-relativistic quantum mechanics, and, among others, also to the Heisenberg principle of indeterminancy. Hereby, the principle of correspondence is used. However, the author assumes that, regardless of the identity of the mathematical apparatus, the obtained results have another sense than in quantum mechanics, since they are based on the classical concepts of causality.

A. Temkin

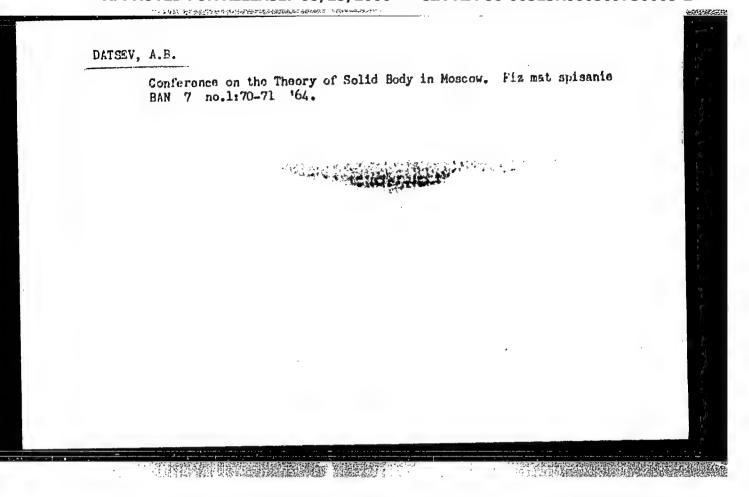
[Abstracter's note: Complete translation]

Card 1/1

DATSEV, Asen B., akad.

Academician Kiril Popov, laurests of the Dimitrov Award. Fiz mat spisanie BAN 5 no.2:149-150 62.

1. Chlen na Redkatsionnata kolegiia, "Fiziko-matematichesko spisanie".



DATSEV, As. B., akad.

Honoring Galileo in East Germany. Fiz mat spisanie BAN 7 no.2:
152 164.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730005-2"

DATSEV, P. (Rybinsk); KOTIKOV, I. (pos.Revda, Murmanskaya obl.);
MIKHAYLIK, P. (Sukhumi); KONOSHENKO, A. (Arkhangel'sk);
BOGDANOV, T. (Syktyvkar, Komi ASSR); VISKOV, V. (Chelyabinsk);
SEREGIN, S. (Vorkuta)

Are stationary fire escape ladders necessary? Fozh.delo 8
no.6126 Je '62. (MIRA 15:6)

(Fire escapes)

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730005-2

DATSEVICH, L. I., (Scientific Co-Worker, State Scientific-Control Institute of Veterinary Preparations)

"Identification of <u>Brucella</u> types by a method of differential staining." Veterinariya, Vol 39, no. 1, Jan 1962. pp 79

IVANOV, M.M.; DATSEVICH, L.I.

Method for the quantitative determination of live Brucella in brucellosis vaccine. Zhur.mikrobiol., epid. i immun. 33 no.3: 46-50 Mr 162. (MIRA 15:4)

1. Iz Gosudarstvennogo nauchno-kontrol'nogo instituta veterinarnykh preparatov Ministerstva sel'skogo khozyaystva SSSR.

(BRUCELLA) (VACCINES)

DATSEVICH, L.I., nauchnyy sotrudnik

Determining Brucella types by differential staining. Veterinariia 39 no.1:7948D Ja 162. (MIRA 15:2)

1. Gosudarstvennyy nauchno-iontrol'nyy institut veterinarnykh preparatov.

(Brucella)
(Stains and staining (Microscopy))

FEDENYUK, A. I.; DATSEVICH, M. A.

Agricultural Machinery

Using the simplest mechanism for stacking hay. M. A. Datsevich, A. I. Fedenyuk. Korm. baza 3, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730005-2

DATSIKOV, V. V.

Chaplin, N. M. and <u>Datsikov, V. V. - "Water supply for animal husbandry in Kara-Kum, Turkmen SSR," Trudy (Vsesoyuz. nauch.-issled. in-t gidrotekhniki i melioretsii), Vol. XXV, Issue 2, 1948, p. 100-22</u>

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

VISHNEVSKIY, V.N. [Vyshnevs'kyi, V.N.]; LYSKOVICH, A.B. [Lyskovych, O.B.];
PIDZYRAYLO, N.S. [Pidsyrailo, M.S.]; DATSISHIN, A.M. [Datsyshyn, A.M.]

Photoluminescence excitation spectma of MaI(T1) crystals. Ukr.
fiz. shur. 7 no.10:1127-1128 0 '62. (MIRA 16:1)

1. L'vovskiy gosudarstvennyy universitet im. I.Franko.
(Phosphors) (Spectrum analysis)

BEZBORODOVA, A.; DATSIV, V.; VANYUKOV, K.

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Practices of apartment-house offices in taking care of children. Zhil.-kom. khos. 8 no.12:20-21 '58. (MIRA 13:1)

1. Sekretar' Chelyabinskogo gorkoma komsomola (for Bezborodova).
2. Sekretar' Ufinskogo gorkoma komsomola (for Datsiv). 3. Predsedatel' roditel'skogo komiteta pri shilishchnoy kontore No.3 Petrogradskogo rayona Leningrada.

(Children---Management)

DATSKEVIKH, A. A.

USSR/Physics of the Earth - Geophysical Prospecting, 0-5

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36442

Author: Datskevich, A. A.

Institution: None

Testing Seismic Receivers Title:

Original

Periodical: Prikl. geofizika, 1956, No 14, 47-64

Abstract: A seismic receiver is considered as an electromechanical 4-terminal network, the input side of which is characterized by the applied

force and a velocity, and the output by a current and a voltage. The connection existing between the input and output quantities is examined. The seismic receiver, when tested, is connected electrically through a resistance box to an audio frequency occillator and is set on a special test stand, comprising 2 ebonite discs and 3 piezoelectric transducers made of Rochelle salt, com-

pressed between the discs. The test stand is mounted on a heavy foundation. The piezoelectric transducers of the test stand are

Card 1/2

DATSKEVICH, H. H.

3(5)

PHASE I BOOK EXPLOITATION

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Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 23 (Exploration and Industrial Geophysics, Nr 23) Moscow, Gostoptekhizdat, 1958. 77 p. (Series: Obmen proizvodstvennym opytom) Errata slip inserted. 4,000 copies printed.

Ed.: A.I. Bogdanov; Exec. Ed.: Ye.G. Pershina; Tech. Ed.: A.S. Polosina.

PURPOSE: This booklet is intended for geophysicists as well as engineering and technical personnel in the petroleum industry.

COVERAGE: This collection of articles describes new equipment and instruments used in the petroleum industry. Individual articles discuss the single-cable electronic thermometer and the magnetic logging locator. Regional exploration problems such as electrical sounding at sea, electrical survey in permafrost areas etc. are also treated. References accompany each article.

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3

Aksel'rod, S.M. Single-Cable Electronic Thermometer Card 1/2

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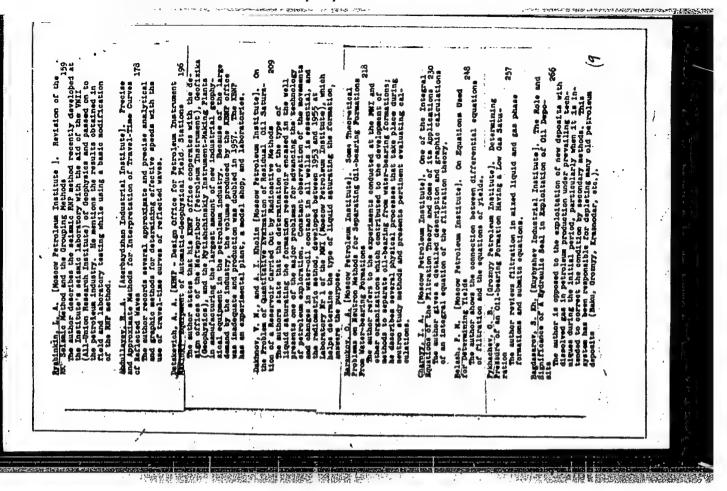
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PERSONAL SELLE VOLCOSPONE A SANTASSESSE

5(3) AUTHORS:

SOV/32-25-2-40/78 Datskevich, A. A., Zhukhovitskiy, A. A., Turkel'taub, N. M.

TITLE:

Apparatus and Technical Equipment for Laboratory Work (Pribory i tekhnika laboratornoy raboty). Sorption-Thermal Apparatus for the Analysis of Gas Mixtures (Sorbtsionno-termi-

cheskiye pribory dlya analiza gazovykh smesey)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2,

pp 210 - 212 (USSR)

ABSTRACT:

The use of stationary chromathermography (CTG) permits the thermal enrichment to take place simultaneously with a breadthwise enrichment, since the adsorption zones tend to gradually be compressed. These localized zones make it possible to carry out automatically both a quantitative and qualitative analysis. A thermodynamical apparatus KhT-2 has been designed which permits analyses by three methods:

stationary (CTG) with continuous or intermittent gas supply, and

non-stationary (CTG). It is possible to analyze multi-

Card 1/2

component gas mixtures of saturated and unsaturated hydrocarbons and their isomers through C6 as well as low-boiling

Apgaratus and Technical Equipment for Laboratory Work. SOV/32-25-2-40/78 Sorption-Thermal Apparatus for the Analysis of Gas Mixtures

gases. The taking of samples and pressure are automatically controlled by a timer and pressure regulator, and the component quantities contained in the mixture are recorded by an electron potentiometer EPP-09. The apparatus (Fig 1) consists of a separating column with a dosing unit, gas analyzer, and a stand for the recording instruments and control panels. Silica gel or aluminum oxide are used as sorbents, the gas carrier is purified air. A diagram of the analysis of an ethane-ethylene-propane-propylene-isobutanebutane mixture is given (Fig 2). The apparatus KhT-3 has been designed to afford more flexibility in the analyses. It is based on combined use of distribution and adsorption chromatography and (CTG). It was designed on the principle of the separation and analysis setup of the universal chromathermograph VNIGNI (Ref)(Fig 3). A model of this setup (without an automatic arrangement) was tested simultaneously with the KhT-2 apparatus in the gas-logging in the Saratov area and at the Moskovskiy neftyanoy pererabatyvayushchiy zavod (Moscow Petroleum Refining Plant). There are 3 figures and 4 Soviet references.

Card 2/2

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

ZHUKHOVITSKIY, A.A., otv.red.; VAGIN, Ie.V., red.; GOL'BERT, K.A., red.;

DATSKEVICH, A.A., red.; TURKEL'TAUB, N.M., red.; FESENKO, Ie.P.,

red.; VANOVSKIY, M.I., red.; VLASOV, L.G., red.izd-ve;

ASTAF'IEVA, A.G., tekhn.red.

[Que chromatography; transactions of the First All-Union Conference on Que Chromatography] Quevaia khromatografiia; trudy Pervoi Vsesoyuznoi konferentsii po gazovoi khromatografii. Moskva, Izd-vo Akadansuk SSSR, 1960. 326 p. (MIRA 14:3)

1. Vsesoyuznaya konferentsiya po gasovoy khromatografii. 1st, Moscow, 1959.

(Gas chromatography)

83688

S/032/60/026/009/002/018 B015/B058

11.3000

AUTHORS:

Datskevich. A. A., Zhigacheva, L. P., Krasnova, G. V., Lapitskaya, M. D., Latukhova, A. G., Moshinskaya, M. B.

TITLE:

Determination of Small Amounts of Hydrogen in Helium

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 9,

pp. 1082 - 1083

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TEXT: A method of determining hydrogen in helium according to the adsorption development chromatography was elaborated. The experiments were made on a XT-2M (KhT-2M) chromatographic instrument with a developer based on the thermochemical principle (Ref. 1). The working conditions were selected in such a way that a detector could determine both components by two characteristics, i.e., helium by the thermal conductivity and hydrogen by the heat of combustion. A 6 m long metallic separation column, filled with CKT (SKT) coal and with air as carrier gas, was used for analyses at room temperature. The sensitivity to hydrogen amounted to 0.5% at a relative accuracy of 5%. A 10 m long polyvinyl chloride tube was used for analyses at low temperatures and work was carried out

Card 1/2

83688

Determination of Small Amounts of Hydrogen in Helium

8/032/60/026/009/002/018 B015/B058

at - 35°C, making it possible to obtain a better separation and to use larger sample quantities, so that the sensitivity rose to 0.05%. A comparison of the measuring results on the KhT-2M instrument with those obtained at a combustion over copper oxide is tabulated. There are 2 figures, 1 table, and 1 Soviet reference.

ASSOCIATION: Konstruktorskoye byuro avtomatiki i telemekhaniki (Design Office for Automation and Telemechanics). Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut (All-Union Petroleum Scientific Research Institute of Geological Survey). Moskovskiy zavod szhizheniya prirodnogo gaza (Moscow Plant for Liquefying Natural Gas)

Method of determining the composition of mixtures of fatty acids and aliphatic alcohols. Masl.-zhir.prom. 26 no.5:20-26 My '60.

(Acids, Fatty)

(Gas chromatography)

(MIRA 13:12)

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ACCESSION NR: AT4043191

AUTHOR: Alekseyeva, A. V., Berman, S.S., Gol'bert, K. A., Datskevich, A. A. Moshinskaya, M. B., Fomina, A. I. 6

TITLE: Determination of trace impurities in monomers

SOURCE Vsesovuznava nauchno-tekhnicheskaya konferentsiya po gazovoy khromatografii. 2d, Moscow, 1962. (azovaya khromatografiya (Cas (bromatography); trudy* konferentsii. Moscow, Izd-vo Nauka, 1964, 99-108

TOPIC TAGS: monomer analysis, impurity determination, gas chromatography, flame ionization detector, molecular sieve, thermal conductivity detector

ABSTRACT: The paper concerns the determination of trace impurities in ethylene and tropylene to be used as raw materials for polymers and copplymers. Light impurities N2. O2, CO2, CH4) were determined with the thermal event detector G-9, reasy impurities with the flame ionization detector. The sensitivity was increased Listerably by the use of programmed temperatures. The feb ruthat on of light im purities is based on the enrichment effect obtained of the conjuntues are adsorbed to a lesser degree than the main component; the width of the band of heavy components was determined by the coefficient of their adsorbability from the mixture, that of the light

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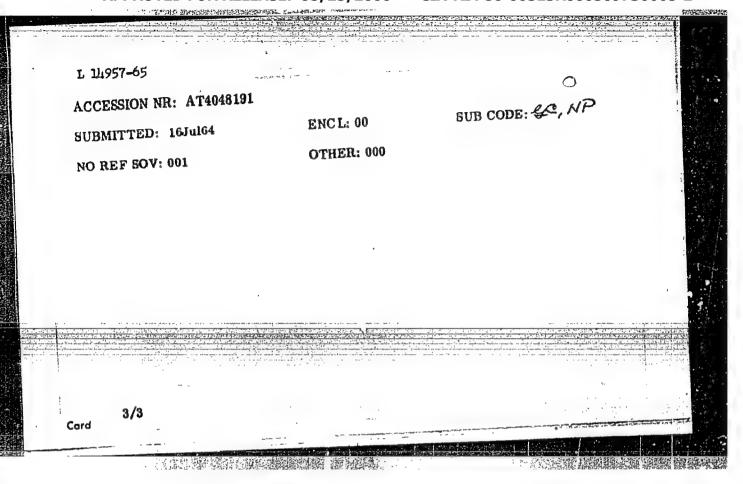
ACCESSION NR: AT4048191

impurities by the spread of the adsorptive zone of the main component (ethylene, propylene). Formulas for finding the enrichment value are presented. Two adsorption columns were used, the first for enrichment, the second for separation. Separation of N2 and O2 required the use of a molecular sieve in the column, with silica gel as the adsorbent. With small loads the degree of enrichment increased anearly with the amount of the specimen introduced, but there was a limit to the latter. Simultaneous to six were conducted with the concentrator at temperatures of -17 and 20C and with the Heavy impurities (C1-C4) were attisfactionly separated on, for example, aluminum on the entering of the vanodiethylsuitable using the flame-ionization detector made by Cont'A linear rick and tripolite ther modifiers were also tested. This work served is it date for the development The apparatus is the interest and illustrated s hematically. It was concluded that programmed the state of the severalfold increase in the heights of the peaks, but that they so the peaks with a very pure carrier gas. Various adsorbents may be used. Ong in the ligures and 2 formulas.

ASSOCIATION: None

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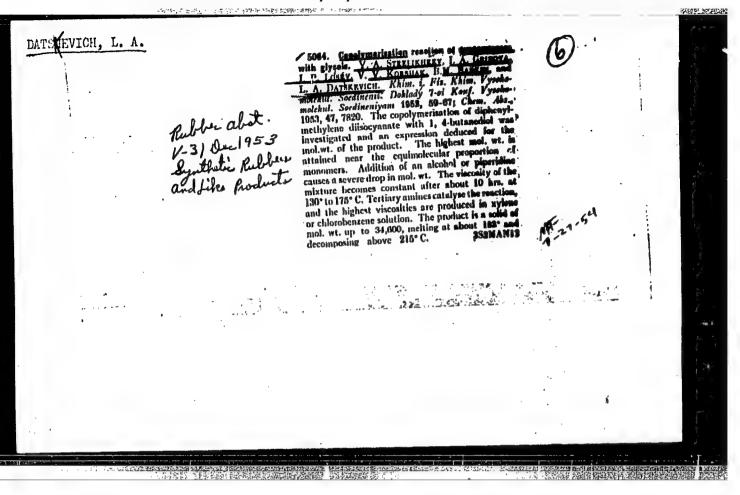


ZHUKHOVITSKIY, A.A.; LAPKIN, L.M.; DITSKEVICH, A.A.

Zero line in vacantochromatography as a basis of continuous doseless analysis. Dokl. AN SSSR 162 no.5%1089-1091 Je *65. (MIRA 18:7)

1. Moskovskiy institut stali i splavov. Submitted November 30, 1964.

CIA-RDP86-00513R000509730005-2



CIA-RDP86-00513R000509730005-2

IOSEV, I.Pa: DATSKEVICH, L.A.

Polyurethan films. Biul. tekhn.-ekon. inform. no.8:10-11 '58.
(HIRA 11:10)

(Plastics) (Carbamic acid)

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87433 s/191/60/000/010/005/017 B004/B060

158460

Losev, I. P., Datskevich, L. A., Mayboroda, V. D.

AUTHORS:

Synthesis and Investigation of Foam Plastics From Polyesters

TITLE:

of Terephthalic Acid and 2,4-Toluylene Diisocyanate

PERIODICAL:

Plasticheskiye massy, 1960, No. 10, pp. 14-16

TEXT: The authors based on Western papers to synthesize foam plastics from polyesters of terephthalic acid and 2,4-toluylene diisocyanate. The polyesters were synthesized by allowing diethylene glycol, triethylene glycol or glycerin to enter into reaction with dimethyl terephthalic acid in the presence of 1% NaOH in a ratio of 2: 1 to 1.2: 1 in nitrogen atmosphere with a slow increase (16 h) of temperature to 200°C. A mixture was prepared from the polyester (molecular weight 700-1500, hydroxyl number 400-80), the emulsifier OTT-10 (OP-10), water, and triethyl amine, 30-50% 2,4-toluylene diisocyanate was added under vigorous stirring, and the mixture was then allowed to harden at 70-80°C in a thermostat. The weight by volume was controled by the water addition:

Card 1/2

87433

Synthesis and Investigation of Foam Plastics From Polyesters of Terephthalic Acid and 2,4-Toluylene Diisocyanate

S/191/60/000/010/005/017 B004/B060

g water per 100 g polyester 0.5 weight by volume of foam plastic, 1.0 2.0 3.0 4.0 5.0 kg/m³ 183 113 72 60 57 The total volume of pores amounted to 91-97% of the sample volume. The maximum water adsorption (in compliance with FOCT 4650-49, GOST 4650-49)

amounted to 20-30 g/dm³. The compressive strength was determined according to FOCT 4651-49 (GOST 4651-49), the bending strength according to the intrinsic resilience according to FOCT 4648-56 (GOST 4648-56) (5.4 kg/cm² for 60 kg/m³ weight by volume), and heat resistance, determined according to FOCT 4647-55 (GOST 4647-55). The plastics were hardly inflammable and were quickly extinguished after removal from the flame. Foam plastics with weight by volume 160-220 kg/m³ are usable in civil construction, aircraft and automobile building. The plastics with weight by volume 50-100 kg/m³ are suitable for heat insulation and as floating naterials. There are 16 references: 2 Soviet, 5 US,

Card 2/2

DATSKEVICH, L.A.; LIHEROVA, R.A.; LOSEV, I.P.; PLOTNIKOV, I.V.; SVOYKINA, A.S.; TSVETKOVA, N.A.

Studying the effect of the primary polyatomic alcohols on the properties of polyester urethane lacquers. Lakokras.mat.i ikh prim. no.2:22-26 162. (MIRA 15:5)

l. Moskovskiy ordena Lenina khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva i Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh materialov i iskusstvennoy kozhi.

(Lacquers and lacquering-Testing)

ACCESSION NR: AT4033988

s/0000/63/000/000/0073/0075

AUTHOR: Datskevich, L. A.; Mayboroda, V. D.; Losev, I. P. (Deceased)

TITLE: Synthesis and analysis of polyester urethans containing phosphorus.

1. Reaction of phenylphosphoric acid dichloroanhydride with diethylene glycol

SOURCE: Geterotsepnywye vywsokomolekulyarnywye soyedineniya (Heterochain macro-molecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 73-75

TOPIC TAGS: diethylene glycol, phenylphosphoric acid dichloroanhydride, polyester, urethan, polycondensation, polycondensation kinetics, second order reaction, reaction rate temperature dependence, phosphorus containing polyester urethan, urethan

ASSTRACT: Equimolecular proportions of diethylene glycol and phenylphosphoric acid dichloroanhydride were polycondensed in solution to study the kinetics of the process at 40-80C. Analysis of the results indicates a second order reaction up to conversion levels of 70%. The activation energy was calculated as 10.6 kcal/mol. The temperature had a significant effect on the reaction rate constant (3.58·10⁻⁴ and 22-3·10⁻⁴ l·mol⁻¹·sec⁻¹ at 40 and 80, respectively), the temperature coefficient (1.73 and 1.45, respectively) and the rate of reaction (33 and 71%, respectively after 2 min.). The polyester obtained was a colorless, highly viscous liquid with molecular weight about 2000. Orig. art. has: 4 graphs, 1 table and

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ACCESSION NR: AT4034010

AUTHOR: Datskevich, L.A.; Hayboroda, V.D.; Losev, I.P. (Deceased)

TITLE: Synthesis and investigation of phosphorus-containing polyesterurethans.

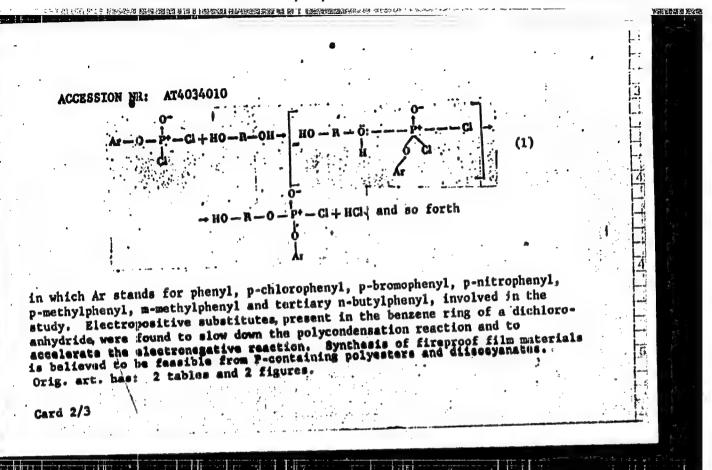
II. The reactivity of the dichlorosnhydrides of substituted phenylphosphoric acids

SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain mac-romolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 243-245

TOPIC TAGS: polymer, phosphorus containing polymer, urethan polymer, polyesterurethan, phosphorus containing polyesterurethan, phenylphosphate, phenylphosphoric acid dichloroanhydride fireproof material

ABSTRACT: In a study of the reactivity of dichloroanhydride-substituted phenylphosphoric acids, the kinetics of the latter's interaction with diethyleneglycol
was investigated at 50G and the reaction rate constants for different substituted
products were graphically determined. The following scheme is offered to represent the reaction mechanism:

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CIA-RDP86-00513R000509730005-2

ACCESSION NR: AT4034010

ASSOCIATION: Hoskovskiy khimiko-tekhnologicheskiy institut im. D. I. Hendeleyeva (Noscov Chemical Technology Institute)

SUEMITTED: 26Apr63 DATE ACQ: 30Apr64 ENGL: 00

SUB CODE: OC, MT NO REF SOV: 003 OTHER: 000

ACCESSION NR: AP4043790

8/0190/64/006/008/1498/1500

AUTHOR: Datskevich, L. A., Mayboroda, V. D., Losev, I. R.

TITLE: Synthesis and investigation of phosphorus-containing polyesterurethanes. III

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 8, 1964, 1498-1500

TOPIC TAGS: polyesterurethane, urethane, phosphorylated polymer, polymerization kinetics, phenylphosphoric acid, triethylene glycol, hexamethylene diisocyanate

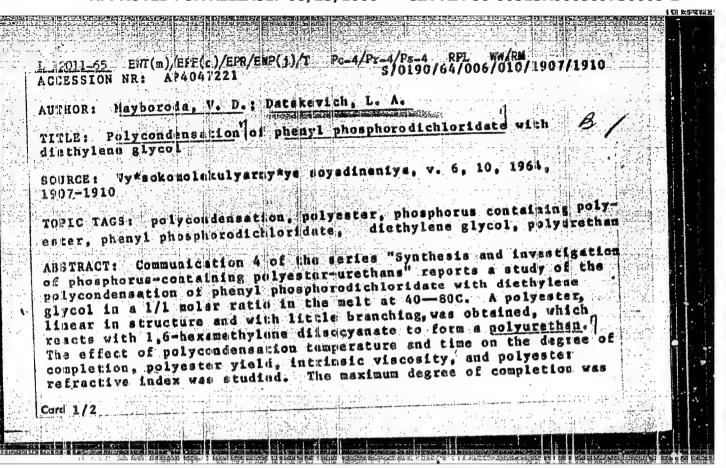
ABSTRACT: Phosphorus-containing polyesterurethanes were synthesized from 1,6-hexamethylenediisocyanate and a polymer based on triethyleneglycol and the dichloroanhydride of phenylphosphoric acid, in the absence of a solvent, in order to expand the practical uses of a reaction whose mechanism is believed to follow the pathway;

 $0 = C = N - R - + H - O - R' - \begin{bmatrix} O = C = N - R - \\ -R' - O \cdots H \end{bmatrix} - R' - O - C - NH - R - C - C - NH - C - C - NH$

Equimolar amounts of the cyanate and the polymer were reacted at 60, 70, 80, 90 and 100C in a testtube provided with a mechanical mixer for a period of 3-6 hrs, during which time the isocyanate number and the refractivity were periodially determined to follow the dynamics

Cord 1/2

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9698% at 60, 70, and	800 and a 1-hr reaction to	ime. The maximum	a ction	
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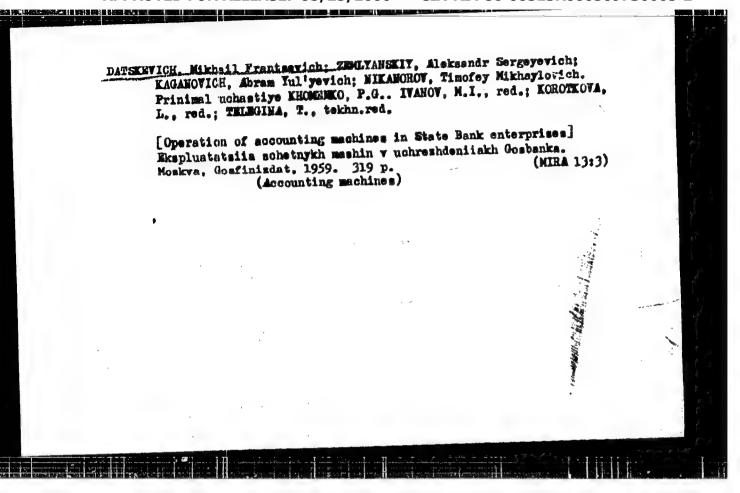
DATSKEVICH, M.F.; POTEKHIN, S.S.; ZIMIM, F.F.; POPOV, I.Ye.; RUSIN, P.N.;
MINIMINE, S.D.; HESTEROV, V.F.; PROLOV, V.A.; GRYAZHOV, V.A., red.;
USTIYARYS, V.A.; KAPRALOVA, A.A., tekhn.red.

[Modernizing punched card calculating machines] Opyt modernizatsii schetno-perforetsionnykh mashin. Moskva, Gos. stat. izd-vo, 1957.
75 p.

1. Russia (1923- US.S.R.) Upravleniye "Soyuzmashuchet."

(Punched card systems)

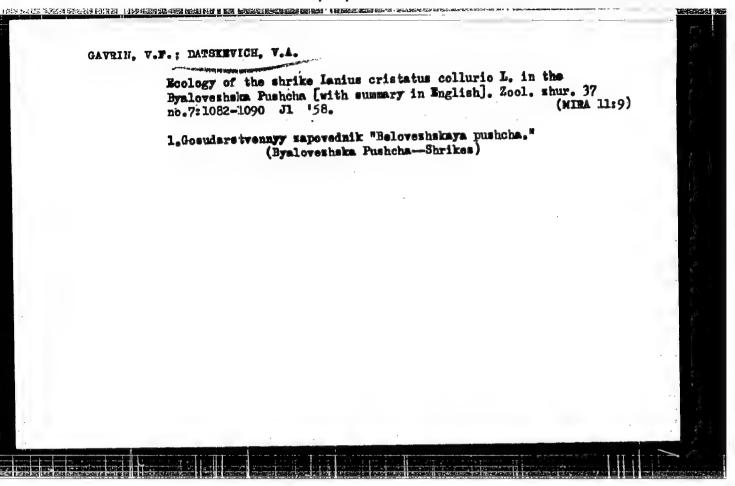
(Calculating machines)



ALIYEV, G.A. (Moskva); BUSLENKO, N.P. (Moskva); KLIMOV, G.P. (Moskva); NAZARENKO, A.I. (Moskva); Prinimali uchastiye: POLYAKOVA, N.A.; DATSKEVICH, R.T.; GAYDABUKA, L.A.

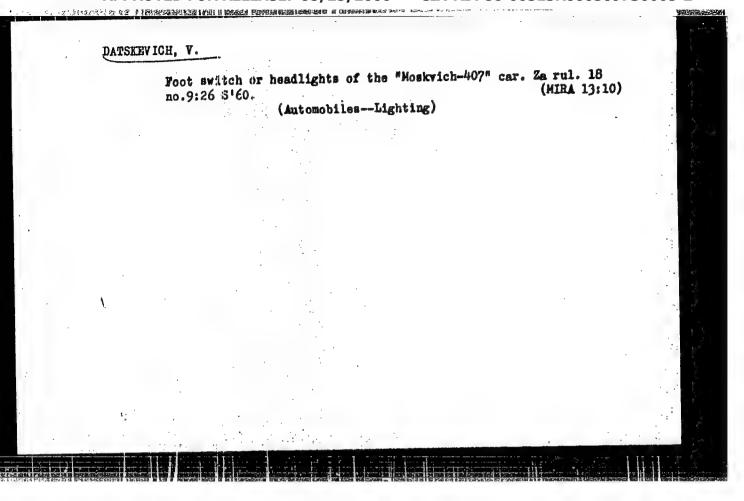
Modeling of the operation of an automated furnace machine for welding pipes. Probl. kib. no.9:211-240 163. (MIRA 17:10)

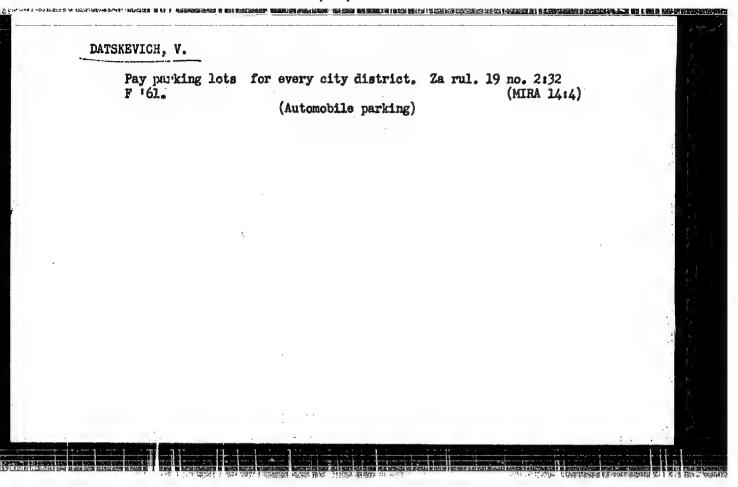
1. Elektrostaliskiy zavod tyazhelogo mashinostroyeniya (for Polyakova, Datskevich, Gaydabuka).



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509730005-2





S/117/60/000/012/015/022 A004/A001

AUTHORS:

Malinina, N., Molodkina, M., Datskiy, M., Filippov, G.

TITLE:

Comment Models for the Manufacture of Dies

PERIODICAL: Mashinostroitel, 1960, No. 12, p. 36

TEXT: Generally the complex profile of the working surface of forging dies for blades is machined on copying milling machines according to wooden model templets. These models lose their geometrical shape rather quick because of temperature fluctuations and the effects of air moisture in the storing rooms. Instead of having model sets for forging dies made of wood, the manufacture of which takes a model maker of the 6th grade some seven days, the Leningradskiy metallicheski; zavod (Leningrad Metallicheskiy Plant) produces these models from cement. The Lemplets used for the cement-model making serve also for the checking of the die shape during the milling operation and fitting work. At the beginning a frame work is manufactured from templets, distance sleeves and gaging pins. Braces are mointed on the sides of the framework, tightened by wedges and cramps. Then diluted construction gypsum is filled into the framework, the side walls of which are removed after the solidification of the gypsum. The profile of the die

Card 1/2

S/117/60/000/012/015/022 A004/A001

Cement Models for the Manufacture of Dies

model is then shaped subsequently between every pair of neighboring templets, the surplus gypsum being cut away flush with the templet profile. Those parts of the profile for which the framework does not provide a templet is done by surface gaging. The ready gypsum mold is covered with a thin nitro-lacquer coating and greased with stearin diluted with kerosene in order to prevent the gypsum from sticking to the cement. Side walls are mounted to the ready mold and the cement is poured in. The process of the cement model setting takes 3-4 days. The cast cement model-templet has a smoother and better surface than the wooden ones, while its manufacture costs by 2-2.5 times less than that of wooden model-templets. There are 4 figures.

Card 2/2

L 23557-66 EWT(d)/EWT(1) IJP(c)	
ACC NRi AP6002946 (A) SOURCE CODE: UR/0286/65/000/024/0107/0107 AUTHOR: Datakovskiv, V. M.	
ORG: none	
TIME: Hydraulic integrator for solving systems of three differential equations with partial derivatives. Class 42, No. 177176	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 107	
ABSTRACT: This Author Certificate presents a hydraulic integrator for solving systems of three differential equations with partial derivatives, e.g., equations describing the nonstationary heat exchange between a gas and a layer of friable material blowing through this gas (taking into account the thermal conductivity of its parts). The integrator contains piezometric integrators. To reduce the number of experiments required to solve the problem and for the unique arrangement of the surfaces of piezometers, hydraulic resistances, and initial and boundary conditions, the integrator contains a group of coupled capillaries and piezometer stopcocks. Each of the groups of piezometers interlocked by one lever is connected through stopcocks to piezometers modulating the time segments.	
SUB CODE: 13, 20/ SUBM DATE: 24Jun63	
Card 1/1 #/ UDK: 681.141—522	

\$/799/62/000/002/003/011

AUTHORS: Barilovskiy, V. L., Vagner, E. N., Glukhov, Yq. N., Datsko, A. V.,

Stupin, E. F.

TITLE: Potential static trigger having a current key with back coupling through

logical diode networks.

SOURCE: Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin.

Tsifrovaya tekhnika i vychislitel'nyye ustroystva. no. 2. 1962, 36443.

TEXT: The paper presents a potential static trigger network utilizing a current key which serves for the making of systems of elements that are fairly fast-acting and are free, to a significant extent, of the shortcomings of other current-switching schemes which require the use of a large number of semiconductor triodes which must be fairly uniform in some of their parameters, such as the voltage between the emitter and the base of the open triode, the base current of the closed triode, and must have fairly elevated values of the current-amplification coefficient, also the unavoidable limitations to the scatter in the value, of the resistances and of the stability of the power supply. A circuit diagram of the trigger is shown. The outstanding characteristic of this current key (Author's Certificate no. 130240, entitled "Shaper-inverter") consists in the fact that the collector circuits of its triodes include fairly high ohmic resistors and diodes which on the collectors of the triodes Card 1/2

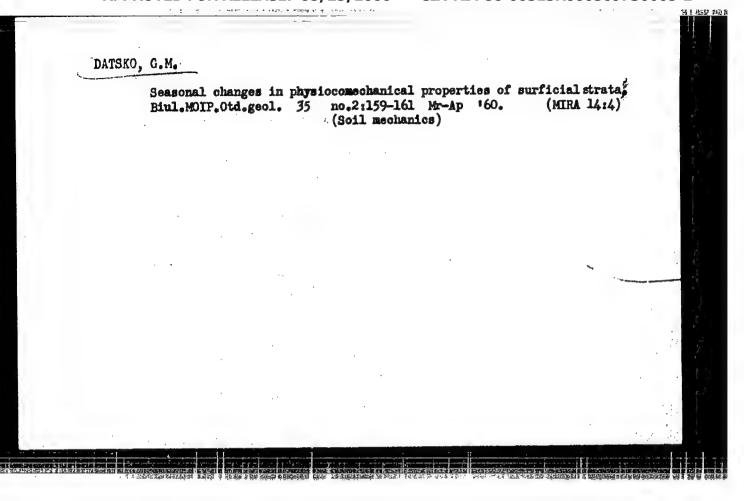
Potential static trigger having a current key S/799/62/000/002/003/011

of the key affords fixed voltage drops of the order of 5-10 v, which are then amplified by the smitter-repeaters, which employ triodes. These magnitudes of the voltage differences at the trigger output permit one to employ logical diode networks in the construction of computers, an arrangement which reduces significantly the number of transistors employed. A circuit diagram of a logical diode scheme is shown. The frequency characteristics of the network and the design problems of a system of elements are discussed, and the basic requirements for the portions and design elements of the circuitry are set forth. The potential static trigger described in the paper is fairly fast-operating. All of the triodes of the trigger operate in a nonsaturated regime. The fairly large voltage differences afforded by the current key permit the use of the trigger in conjunction with diode circuits. The starting of the trigger and the feedback in it are performed through logical diode networks. There are no reactive elements, since all connections are by DC. A large scatter in the parameters of the transistors and diodes is permissible. The requirements relative to the resistances and the stability of the power supply become more stringent as a result thereof. However, they are readily fulfilled. There are 2 figures, and 9 references (8 Russian language Soviet and 1 English-language: R. K. Richards, Arithmetical operational on digital computing machines, in Russian-language translation, Moscow. Foreign Literature Publishing House, 1957).

Card 2/2

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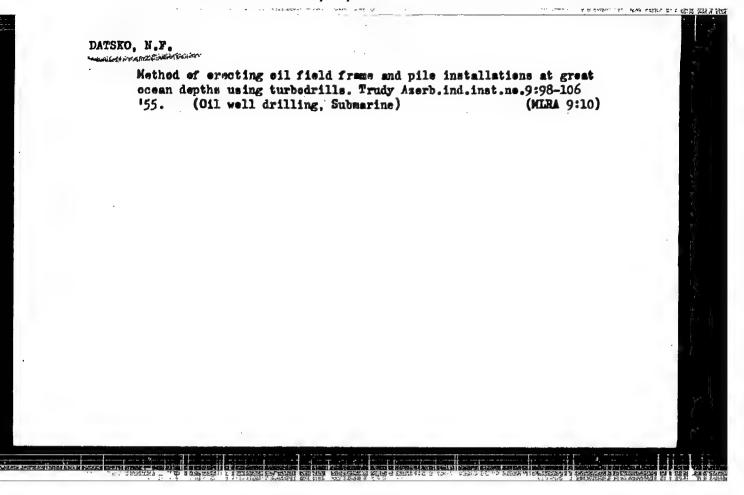


DATSKO, G.M.

Seasonal changes of the modulus of soil and ground deformation in the forest zone of the European part of the U.S.S.R. Vest.Mosk.un.Ser.4:Geol. 17 no.4:62-67 Jl-Ag '62. (MIRA 15:9)

1. Kafedra gruntovedeniya i inshenernoy geologii Moskovskogo gosudarstvennogo universiteta.

(Soil mechanics)



15-57-8-11689

Referativnyy zhurnal, Geologiya, 1957, Nr 8, p 240 (USSR) Translation from:

option construction processes as the second

AUTHOR:

Datsko, N. F.

TITLE:

Description and Erection of Off-Shore Drill-Rig

Platform for Sea Depth of 20 Meters (Neftepromyslovaya estakada dlya glubiny morya 20 m i sposob yeye vozve-

deniya)

PERIODICAL:

Tr. Azerb. industr. in-ta, 1956, Nr 13, pp 89-102

ABSTRACT:

The DEA drill-rig platform was designed by N. F. Datsko, G. G. Yelesuiskiy, and N. M. Aliyevyy, members

of the Department of Strength of Materials and

Structural Mechanics of the Azerbaidzhan SSR Industrial Institute. It is usable for any type of relief and for any lithology of the sea bottom. The use of tubular piles equipped with turbine drills makes it possible to

sink the piles in the bottom rapidly to any necessary

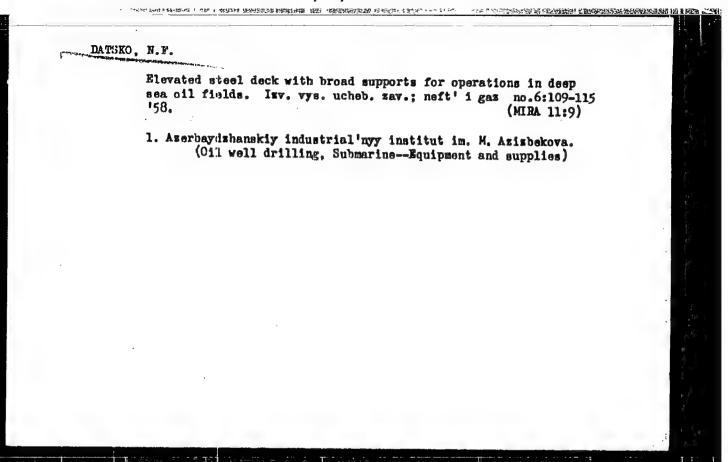
Card 1/3

Description and Erection of Off-Shore Drill-Rig (Cont.)

The fabricated supports and the trusses are mounted with a special crane which is set up on the fabricated truss of the platform. The crane is dismantled after the work is completed and may be transferred to another location.

Card 3/3

K. G. Volodchenko



 VLADZIMIRSKAYA, Ye.V. [Vladzimirs'ka, O.V.]; DATSKO, N.N. [Datsko, N.M.]

Arylides of carbamythioglycolic acid as reagents for chemical analysis. Farmatsev. zhur. 19 no.4:38-42 164. (MIRA 17:11)

1. Kafedra farmatsevticheskoy khimii L'vovskogo meditsinskogo instituta (zaveduyushchiy kafedroy prof. M.M. Turkevich).

SOV/126-6-5-21/43

AUTHORS: Datsko, O. I., and Pavlov, V. A.

TITLE: Temperature Dependence of the Internal Friction in Pure Nickel (Temperaturnaya zavisimost' vnutrennego treniya chistogo nikelya)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 5, pp 900-904 (USSR)

ABSTRACT: The authors used electrolytic nickel of 99.987% purity.

Ingots of nickel were rolled and drawn at room temperature in several stages until a wire of 0.80 mm dia. was produced. In between the forming stages the samples were annealed at 800°C in vacuo. After the last anneal the wire was deformed by 80% reduction of its cross section and cut into 300 cm lengths. The temperature dependence of the internal friction was determined by means of a torsional pendulum oscillating at 0.5 c/s in 10⁻³ - 10⁻⁴ mm Hg vacuum. The following procedure was applied in each set of measurements: a sample was heated at 2°C/min to 700-900°C and then cooled slowly to room temperature by switching off the furnace and leaving the sample in it. After each such anneal the temperature dependence of the Cardl/4 internal friction was measured and recorded. In the first

SOV/126-6-5-21/43
Temperature Dependence of the Internal Friction in Pure Nickel

heating of a deformed sample to 700°C or more, recrystallisation occurred at 400°C. Each subsequent heating produced collective recrystallisation. Fig.1 shows the temperature dependence of the internal friction of nickel as a function of the anreal temperature.

Curves 1-5 in Fig.1 represent the results obtained by short anneals at 700, 750, 800, 850 and 900°C respectively, while curve 6 is the result of a 3-hour anneal at 900°C. Fig.2 gives the temperature dependence of the internal friction of nickel as a function of deformation by 1% (curve 1) and subsequent short anneals at 700°C (curve 2), 800°C (curve 3), 900°C (curve 4), and a 3-hour anneal at 900°C (curve 5). Fig.3 presents data, analogous to those of Fig.2 for 2% deformation (curve 2) and subsequent anneals at 900°C (short anneal, curve 3 and 3-hour, curve 1). Fig.4 shows the effect of addition of 0.023% (curve 1), 0.05% (curve 2) and 0.24% (curve 3) of aluminium on the temperature dependence of the internal friction of nickel. The authors make the following conclusions.

1. The internal friction peak at 440-460°C is due to

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SOV/126-6-5-21/43

Temperature Dependence of the Internal Friction in Pure Nickel

relaxation stresses along grain boundaries. This peak decreases in amplitude and is slightly displaced towards higher temperatures on increase of the annealing temperature. This is due to the increase of the grain size and the change in properties of the grain boundaries on collective recrystallisation. 2. The internal friction peak at 630-800°C is due to relaxation of stresses on mosaic block boundaries. It increases in amplitude and is displaced towards lower temperatures by plastic deformation. Increase of the temperature of anneals carried out after deformation displaces this peak towards higher temperatures and reduces its amplitude. This behaviour is due to processes of growth and reduction in size of the mosaic blocks, which are accompanied by changes in the properties of the block boundaries. The 630-800°C peak disappears when a foreign metal (e.g. aluminium) is added to nickel (Fig.4). There are 5 figures and 14 references, 4 of which are Soviet, 6 English, 2 German, 1 French and 1 translation from English.

Card3/4

807/126-6-5-21/43

Temperature Dependence of the Internal Friction in Pure Nickel

ASSOCIATION: Institut fiziki metallov Ural'skogo filiala AN SSSR (Institute of Metal Physics, Ural Branch of the Ac.Sc., USSR)

SUBMITTED: August 8, 1957

Card 4/4

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DATSKO, O.I.		
18(7) PHASE I BOOK EXPLOITATION SOW/3355		
Akademiya nauk 555R. Institut metallurgii. Mauchnyy Advet po probleme zharoprochnykh splavov		
Issledovaniya po zharoprochnym splavam, t. IV (Studies on Heat-Pa- sistant Alloys, vol. 4), Moscow, Isd-vo AN 353R, 1959. 400 p. Errata slip inserted, 2,200 copies printed.		
Ed. of Publishing House: V. A. Klimov; Tech. Ed.: A. F. Guseva; Editorial Board: I. F. Berdin, Academisian; G. V. Kurdyumov, Academician; N. V. Ageyev; Corresponding Nember, USSR Academy of Sciences; I. A. Oding, I. M. Pavlov, and I. F. Zudin, Candidate of Technical Sciences.		
PURPOSE: This book is intended for metallurgists concerned with the structural metallurgy of alloys.		
COVERAGE: This is a collection of specialized studies of various problems in the structural metallurgy of heat-resistant alloys. Some are concerned with theoretical principles, some with descriptions of new equipment and methods, others with properties of specific materials. Various prichamana occurring under specified conditions are studied and reported on. For details, see Table of Contents. The articles are accompaid by a number of references, both Soviet and non-Soviet.		
TABLE OF CONTENTS:	3	
Oding, I. A., V. S. Ivenova, and Tv. P. Liberov. Role of the Surface of Separation in Creen-rupture Failure of Metale		
Davidenkov, W. W. On One Contradiction in the Theory of Cold Shortness 13		
Osinov. E. A. On the Diffusion and Heat Resistance of Metal.		
Paylov, V. A., M. G. Saphukov, O. I. Datako, M. I. Hoskova, and I. A. Paratusina. Rifebr of Structural Feeularities on the Schaveor of Metale at High Temperatures 26		
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CIA-RDP86-00513R000509730005-2

PAVIOV, V.A.; GAYDUKOV, M.G.; DATSKO, O.I.; MOSKOVA, M.I.; PERSTURINA, I.A.

Reflect of structural characteristics on metal behavior at high temperatures. Issl.po sharopr.splav. 4:26-35 '59.

(MIRA 13:5)

(Mickel-copper alloys--Metallography)

The second second					
AUTHOR:	Datsko, O.I.	S/520/59/000/022, E193/E483	/017/021		
TITLE:	Change of the Properties Nickel Brought About by	Alloying With Copp	per 2/		
PERIODICAL:	Akademiya nauk SSSR. Ura Institut fiziki metallov	l'skiy filial, Sve . Trudy, No.22,19	erdlovsk. 59,pp,117-121		
of the relati	object of the investigat o study the causes and the xation processes, associa	e mechanism of the	e slowing down		
end, the ter	aries, in pure nickel and mperature-dependence of i f vibrations of the alloy	in Ni-Cu alloys. nternal friction?	To this	<u>V</u>	
these metals	endulum method and the ros was measured. The expontaining 10, 20 and 40	crystallization to	emperature of		
degassed by	ing from electrolytic nic vacuum annealing. The iameter) were prepared by	kel and copper, pr	reliminarily		
cord-drawing	s stage having been carrifiarea of 80%. The expe	ed out to give a t	total		
Caru 1/		ere emme et et ererere per un saar vaar vaar vaar			

5/520/59/000/022/017/021 Change of the Properties of ... the following manner: the cold-worked specimen was heated at the rate of 2°C/min to the annealing temperature and maintained at that temperature for a pre-determined time. The specimen was then furnace-cooled to room temporature, after which it was heated again to the annealing temperature. During both the first and second heating cycle, the temperature dependence of the natural frequency of vibration and of internal friction (Q^{-1}) was determined. In the case of annealed material (second heating cycle) care was taken to carry out the measurements on specimens with the same thermal and mechanical history and the same grain size, in order to exclude the possibility of the results being affected by the variation of these factors. To determine the temperature of the beginning of recrystallization, several coldworked specimens of an alloy were heated to various temperatures, after which they were electrolytically polished in a 57:37:7 glycerine:orthophosphoric acid:water electrolyte, etched lightly in a 1:1 nitric acid:acetic acid mixture and examined under microscope. The temperature of the treatment, after which the entire surface of the specimen was occupied by newly-formed grains, was regarded as the recrystallization temperature of a given alloy.

AND THE VESTIGATION OF THE PERSON OF THE PER \$/520/59/000/022/017/021 Change of the Properties of ... E193/E483 The main results are reproduced in Fig.1, where internal friction (Q-1) of specimens annealed for 3 h at 900°C is plotted against the test temperature (°C), curves 1 to 5 relating to: 1 - pure nickel (grain size a $\approx 0.2 \text{ mm}$); 2 - 10% Cu-Ni alloy (a $\approx 0.04 \text{ mm}$); 3 - 20% Cu-Ni alloy; 4 - 40% Cu-Ni alloy; 5 - 10% Cu-Ni alloy extended to 3% elongation and subsequently annealed for 3 h at 1050°C (a 20.15 mm). It will be seen that whereas pure nickel has two internal friction peaks at 420 to 440 and 700 to 760°C, the internal friction of Ni-Cu alloys, very low at temperatures below 500°C, increases rapidly and monotonically at higher temperatures, reaching a maximum in the 740 to 900°C temperature range. In Fig.2, the square of the natural frequency of vibrations (f2) of cold-worked Ni, 10% Cu-Ni, 20% Cu-Ni and 40% Cu-Ni alloy specimens (Curves 1 to 4 respectively) is plotted against the test temperature (°C). It will be seen that all curves relating to alloys are below that constructed for pure nickel and that, with increasing temperature, f2 decreases (the rate of decrease being highest in nickel), the curves relating to alloys being parallel at low temperatures and starting to converge at about 500°C. The recrystallization temperature was found to be

S/520/59/000/022/017/021 Change of the Properties of ... E193/E483 380 ± 15°C for pure nickel and 585 ± 15°C for the Ni-Cu alloys, irrespective of their Cu content. Recent results of the author and V.A.Pavlov (Ref.5) are quoted; they have found that the internal friction peak, observed in nickel in the 420 to 440°C range, disappears if the size of the individual grains exceeds the diameter of the specimen, from which they inferred that this peak is associated with the relaxation of stresses along the grain boundaries. Since the magnitude of the internal friction peak, observed in the 10% Cu-Ni alloy with somewhat large grains (Curve 5, Fig.1) was lower than that displayed by the finelycrystalline material (Curves 2 to 4, Fig.1), it is most likely that the internal friction peaks on curves 2, 3, 4 and 5 are also associated with the relaxation processes at the grain boundaries. The results of the present investigation indicate that the temperature of both recrystallization and relaxation processes, which take place at nickel grain boundaries, is raised by copper This change cannot be attributed to the variation of the atomic bond forces, since these, as is illustrated by curves shown in Fig.2, decrease with increasing Cu content. It would appear that the introduction of copper brings about changes in the